Report #:DOE/EIA-0554(2009)
Release date: March 2009
Next release date: March 2010

Assumptions to the Annual Energy Outlook 2009

Table 4.3. Capital Cost and Performance Parameters of Selected Residential Distributed Generation Technologies

Technology Type	Year of Introduction	Average Generating Capacity (kW)	Electrical Efficiency	Combined Efficiency (Elec. + Thermal)	Installed Capital Cost ($2005 per KW of Capacity)[1]	Service Life Years
Solar Photovoltaic						
	2007	3.0	0.16	N/A	$8,930	30
	2010	3.5	0.18	N/A	$8,467	30
	2015	4.0	0.20	N/A	$7,310	30
	2020	5.0	0.22	N/A	$6,154	30
	2030	5.0	0.25	N/A	$3,840	30
Fuel Cell	2007	10	0.308	0.697	$8,062	20
	2010	10	0.320	0.699	$6,199	20
	2015	10	0.335	0.705	$4,819	20
	2020	10	0.350	0.712	$3,440	20
	2030	10	0.360	0.723	$1,886	20

[1]Installed costs are given in 2005 dollars in the original source document.

Source: Solar Technology Specifications: Solar Energy Industries Association, *Our Solar Power Future - The U.S. Photovoltaic Industry Roadmap through 2030 and Beyond* (SEIA, September 2004). Fuel cells: Discovery Insights, *LLC, "Installed Costs for Small CHP Systems - Estimates and Projections"* (April 2005).